CHADSETY K K

History of the development of the Caspian and Baikel seals. Trudy Zool.inst. no.17:200-216 '55. (MIRA 8:10) (Seals (Animals))

CHAPSKIY K.K.

CHAPSKIY Konstantin Konstantinovich; BIAGOSKIOMOV, K.N., red.; SIDOROVA, V.I., red.izd-va; POPRYADUKHIN, K.A., tekhn.red.

[Transformation of the animal world in the U.S.S.R.] Preobrasovanie shivotnogo mira SSSR. Moskva, Sovetskaia nauka, 1957. 314 p. (Animals) (MIRA 11:2)

CHAPSKIY, K.K.

Present state and problems of the taxonomy of pinnipeds. Trudy sov. Ikht. kom. no.12:138-149 °61. (MIRA 14:6)

1. Zoologicheskiy institut AN SSSR. (Pinnipedia)

CHAPSKIY, K.K.

Some ecological aspects of seasonal range dynamics of the White Seapopulation of Greenland seals (Pagophoca groenlandica). Trudy sov. Ikht. kom. no.12:150-163 °61. (MIRA 14:6)

 Zoologicheskiy institut AN SSSR. (White Sea -- Seals(Animals))

TOMILIN, Avenir Grigor yevich, prof.; PAVLOVSKIY, Ye.N., akademik, glavnyy red.; CHAPSKIY, K.K., red.; BYKHOVSKIY, B.Ye., red.; GROMOV, I.M., red.; MONCHADSKIY, A.S., red.; SKARLATO, O.A., red.; STRELKOV, A.A., red.; SHTAKEL HERG, A.A., red.; MAKAROV, B.M., red.izd-va; ROMANOV, G.M., tekhn.red.; NOVICHKOVA, N.D., tekhn.red.

[Cetaceans of the seas of the U.S.S.R.] Kitoobraznye fauny morei SSSR. Moskva, Izd-vo Akad.nauk SSSR, 1962. 211 p. (Opredeliteli po faune SSSR, no.79). (MIRA 15:8)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy). (Cetacea)

GROMOV, I.M.; GUREYEV, A.A.; NOVIKOV, G.A.; SOKOLOV, I.I.; STRELKOV, P.P.; CHAPSKIY, K.K.; PAVLOVSKIY, Ye.N., akademik, glav. red.; BYKHOVSKIY, B.Ye., red.; MONCHADSKIY, A.S., red.; SKARLATO, O.A., red.; SHYAKEL' HERG, A.A., red.; SMIRNOVA, N.V., red.; SMIRNOVA, A.V., tekhn. red.

[Mammals of the U.S.S.R.] Mlekopitaiushchie fauny SSSR. Sost. I.M.Gromov i dr. Moskva, Izd-vo AN SSSR. Pts.1-2. 1963. (MIRA 16:9)

1. Akademiya nauk SSSR. Zoologicheskiy institut. (Mammals)

PAVLOVSKIY, Ye.N., akad., glav. red.; ZENKOVICH, B.A., red.; K'EYNBERG, S.Ye., red.; CHAPSKIY, K.K., red.; MAKAROV, B.M., red.

[Marine mammals] Morskie mlekopitaiushchie. Moskva, Nauka, 1965. 317 p. (MIRA 18:5)

1. Akademiya nauk SSSR. Ikhtiologicheskaia kommissiya. 2. Vsesoyuznyy nauchno-issledovateliskiy institut morskogo rybnogo khozyaystva i okeanografii (for Zenkovich). 3. Zoologicheskiy institut AN SSSR (for Chapskiy).

BOBRINSKIY, Nikolay Alekseyevich; KUZNETSOV, Boris Aleksandrovich; KUZYAKIN, Aleksandr Petrovich, prof.; NATALI, V.F., doktor biol. nauk, retsenzent; SOKOLOV, I.I., doktor biol. nauk, retsenzent; CHAPSKIY, K.K., doktor biol. nauk, retsenzent; CROMOV, I.M., kand. biol. nauk, retsenzent; KHUNTSKARIYA, Ye.N., red.

[Guide to the mammals of the U.S.S.R.; a manual for students of pedagogical institutes and teachers] Opredelitel' mleko-pitaiushchikh SSSR; posobie dlia studentov pedagogicheskikh institutov i uchitelei. Izd.2., ispr. i dop. Moskva, Prosveshchenie, 1965. 381 p. (MIRA 18:5)

OHAPSKAL C.U.

KHASHCHINSKIY, Viktor Petrovic, professor, red

KHASHCHINSKIY, Viktor Petrevic, prefessor, redaktor; NACHARYAN, Sergey Artem'yevich; CHAPSKIY, O.U., redaktor; VODOLAGINA, S.D., tekhnicheskiy redaktor.

[Construction of electric lines and systems in the village]
Stroitel'stvo sel'skikh elektricheskikh linii i setei. Ped.red.
V.P. Khashchinskoge. Noskva, Gos.izd-we sel'skekhos. lit-ry, 1955.
123 p. (MLRA 9:1)
(Electric lines) (Eural electrification)

CHAPSKIY O.U.

AMIFEROV. Filipp Yevdokimovich, kandidat sel'skokhosyaystvennykh nauk;
GHAPSKIY, O.U., redsktor; MOLGOTSOVA, N.G., tekhnicheskiy redsktor

[Machinery and implements for the care of orchards] Mashiny i orudiia po ukhodu sa sadom. Moskva, Gos. izd-vo sel'skos.lit-ry, 1956.

157 p.

(Fruit culture) (Agricultural implements)

GROWHOL'SXIY, Nikoley Fedorovich; CHAPSKIY, O.U., red.; BARANOVA, L.G., tekhn.red.

[Reconditioning of parts of tractors and agricultural machinery by welding and building-up] Vosstanovlenie detalei traktorov i sel'skokhosisistvennykh mashin svarkoi i naplavkoi. Moskva, Gos.izd-vo sel'khos.lit-ry, 1960. 145 p. (NIRA 13:9) (Tractors--Maintenance and repair) (Agricultural machinery--Maintenance and repair)

CHERNOZUBOV, K.P.; CHAPSKIY, O.H., red.; FRIDMAN, Z.L., tekhn. red.;
BARANOVA, L.G., tekhn. red.

[Concise manual for rural electricians] Kratkii spravochnik sel'-skogo elektrifikatora. Sost. K.P.Chernozubov. Leningrad, Izd-vo sel'khoz. lit-ry zhurnalov i plakatov, 1961. 430 p. (MIRA 15:1) (Rural electrification—Handbooks, manuals, etc.)

ZHDANOVSKIY, Nikolay Stepanovich; ZUYEV, Aleksey Ivanovich; CHAPSKIY,

O.U., red.; BARANOVA, L.G., tekhn. red.

[Testing and running of tractor engines without braking (under operating conditions)]Bestormoznaia proverka i obkatka traktornykh dvigatelei (v ekspluatatsionnykh usloviiakh)

Leningrad, Sel'khozizdat, 1962. 53 p. (MIRA 15:9)

(Tractors—Engines—Testing)

ANTIPIN, Veniamin Georgiyevich; CRIGOR YEV, Sergey Mikhaylovich;
LUR YE, Abram Bentsianovich; CHAPSKIY, O.U., red.; BARANOVA,
L.G., tekhn. red.

[Grain harvesting combines and the organization of combine harvesting of grain crops]Zernouborochnye kombainy i organizatsiia kombainovoi uborki zernovykh kul'tur. Leningrad, Sal'-khozizdat, 1962. 383 p. (MIRA 15:10) (Combines (Agricultural machinery)) (Grain—Harvesting)

ZUYEV, A.I.; GLAZUNOV, P.D.; DANILENKO, N.M.; KISELEV, I.N.; STRELKOV, M.N.; IOFINOV, S.A., prof., red.; CHAPSKIY, O.U., red.; BARANOVA, L.G., tekhn.red.; FRIDMAN, Z.L., tekhn. red.

[Concise manual for the agricultural machinery operator]
Kratkii spravochnik mekhanizatora sel'skogo khoziaistva.
[By] A.I.Zuev i dr. Moskva, Sel'khozizdat, 1963. 583 p.
(MIRA 17:1)

(Agricultural machinery)

PEVZNER, Yakov Davidovich; CHAPSKIY, O.U., red.

[Organizing the repair of agricultural machinery] Organizatsiia remonta mashin v sels'kom khoziaistve. Izd.3., perer. i dop. Moskva, Kolos, 1964. 359 p.

(MIRA 17:12)

MOZHAYEV, Vladimir Nikolayevich, prof.; CHAFSKIY, O.U., red.

[Electrical equipment of tractors, automobiles, and combines] Elektrooborudovanie traktorov, avtomobilei i kombainov. Izd.4. Leningrad, Kolos, 1964. 247 p. (MIRA 18:2)

BORSHCHOV, Timofey Sergeyevich, dots.; CHAPSKIY, O.U., red.

[Earthmoving machinery; the organisation and technology of earthwork] Zemleroinye mashiny, organizatsiia i tekhnologiia zemlianykh rabot. Izd.2., perer. i dop. Leningrad, Kolos, 1965. 366 p. (MIRA 18:6)

DAVIDOVICH, Semen Markovich; CHAPSKIY, O.U., red.

[Design and working principles of tractors and automobiles] Ustroistvo traktorov i avtomobilei. 2., perer. i dop. izd. Leningrad, Kolos, 1965. 510 p. (MIRA 18:6)

CHNPSKIY, P.D.

GIMEO, Sergey Sergeyevich; KHASHCHINSKIY, V.P., professor, redaktor; CHAPSKIY, P.D., redaktor; VODOLAGIMA, S.D., tekhnicheskiy redaktor.

[Research and surveying for the construction of rural hydroelectric power stations] Obsledovania i isyskania dlia stroitel'stva sel'skikh GES. Pod red. V.P. Khashchinskogo. Moskva, Gos.izd-vo selkhoz. lit-ry, 1955. 178 p. [Microfilm] (MLRA 8:9) (Hydroelectric power stations)

CHAPTSON, R.P.

AUTHOR:

Kazantsev, Ye.I. and Chaptsov, R.P.

3-58-6-20/34

TITLE:

Students Help Industry

(Studenty - Proizvodstvu)

PERIODICAL: Vestnik Vysshey Shkoly, 1958, Nr 6, pp 77 - 81 (USSR)

ABSTRACT:

Many years ago the Urals Polytechnical Institute began to examine the question of the students! proper shop training. It was the instructors intention to familiarize the student with the enterprise in which he is likely to work and to train him to give actual help to the enterprises while he is still studying. In 1952, a conference of the Studencheskoye nauchnotekhnicheskoye obshchestvo (Students Scientific-Technical Society) issued an appeal to all students to carry out at least one project during their training period that would be of assistance to production. At the beginning of the 1957/58 school year it was decided to ascertain, in cooperation with the BRIZ chiefs of the industrial enterprises of Sverdlovsk, which questions the plants are particularly interested in. Under the supervision of the Candidate of Technical Sciences, Dotsent O.A. Ganago, instructor of the Chair for Treating Metals Under Pressure, students of the Metallurgical Faculty carried out several projects which were important from a

Card 1/3

3-58-6-20/34

Students Help Industry

practical point of view. Thus, the 4th-course students designed a manipulator for a horizontal forging machine making the blanks for bearing casings at the Sverdlovskiy sharikopodshipnikovyy zavod (Sverdlovsk Ball Bearing Plant). The author enumerates a number of other works carried out by students for the enterprises. At present the institute maintains connections with the Verkh-Isetskiy metallurgicheskiy zavod, (Verkh-Isetsk Metallurgical Plant), Instrumental nyy zavod (Tool Factory), Zavod bashennykh kranov (Tower Crane Plant), Uralmashzavod, Uralkhimmash, Uralelektroapparat, and others. Dealing with the deficiencies in the students' coordination with industrial enterprises, the author points out that the students work load prevents them from developing relations. Some chair workers and directors of many enterprises (even the Ural'skiy zavod tyazhelogo mashinostroyeniya - Ural Heavy Equipment Plant) are not inclined to become engaged in developing this coordination. Among other recommendations made by the author, there is one to the effect that the pre-diploma practical training be extended to 8-12 months as against the present $1\frac{1}{2}$ - 2 months. This will enable the students to work in various capacities at the factories, and will help them to gather material for the graduating thesis.

Students Help Industry

3-58-6-20/34

imeni S. N. Kirova

ASSOCIATION: Ural'skiy politekhnicheskiy instituta(The Urals Polytechnical Institute ineni S. M. Kirov)

Card 3/3

3-58-7-31/36

AUTHORS:

Sitnikov, O.P., Candidate of Technical Sciences, and Chaptsov.

R.P.

TITLE: The D.C. Electronic Analyzer (Elektronnaya model' postoyannogo

toka)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 7, p 83 (USSR)

ABSTRACT: The d.c. electronic analyzer was built by students of the

> Kafedra apparatury avtomaticheskogo upravleniya radiotekhnicheskogo fakul'teta Ural'skogo politekhnicheskogo instituta (The Chair for Automatic Operation of Equipment of the Radiotechnical Faculty of the Ural Polytechnical Institute). It

was built in 1956-57 and all parts were constructed by students.

There is 1 photo.

ASSOCIATION: Ural'skiy politekhnicheskiy institut imeni S.M. Kirova (The

Ural Polytechnical Institute imeni S.M. Kirov)

Card 1/1

KOL'MAN, E., prof.; GORPINICH, K.Ye., uchitel; SHTEPAN, V.Ye., prepodavatel' teoreticheskoy mekhaniki; VLASOV, O.Ye., prof. (Moskva); MERKULOV, I.T. (Ul'yanovsk); KUTSEV, M.M. (Kuybyshev); CHAPTYKOV, P.G. (Leningrad); DEMIN, V.N. (Tashkent); TUKMAN, R.E. (Tallin); GERTS, G., doktor fizicheskikh nauk, dotsent; DUDEL', S.P., doktor filosof. nauk, prof. (Moskva)

Finiteness and infinity in the universe; survey of letters and articles received by the editor. Priroda 54 no.8:97-102 Ag '65.

(MIRA 18:8)

1. Shkola No.8 g. Kremenchuga (for Gorpinich). 2. Krasnoyarskiy politekhnicheskiy institut (for Shtepan). 3. Filosofskiy fakul'tet universiteta im. Gumbol'dta, Berlin, Germanskaya Demokraticheskaya Respublika (for Gerts).

CHAPURIN, F. K., Candidate

Afforestation - Kuban

Practices in growing shelterbelts from spot seedings in Kuban. Dokl. Akad. sel'khoz. 18, No. 1, 1953. and Agrobiologiya, No.1. 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

CHAPURIN. F., kand.sel'skokhosyaystvennykh nauk

Planting cak in clusters in the Kuban. Hauka i pered.op.v
sel'khoz. 9 nc.12:30-31 D '59. (MIRA 13:4)

(Kuban—Oak)

CHAPURIN, I.A.

For widespread adeption of all-notal saw blades. Tekst.prem. 15 no.11:23-25 H '55. (MLRA 9:1)

1. Glavny inshener fabriki "Krasnaya vetka".

CHAPURIN, I.A.

Automatic starting device on a roving frame. Tekst.prom. 16 mo.6: 55-56 Je '56. (NLRA 9:8)

1. Glavnyy inchemer fabriki "Krasnaya vetka".
(Spinning machinery--Attachments)

CHAPURIN, I.A.

Redesigning sliver arranging on carding machines to increase the sliver in the can. Obm.tekh.opyt. [MLP] no.16:13-17 '56. (Carding machines) (MIRA 11:11)

ZOBOV, Ye.V.; SHCHELKUNOVA, M.S.; BABANOVA, Zh.I.; CHAPURIN, V.I.; SHEMELEVA, V.A.; DYUL'GER, T.B.; GINKU, A.I.

Anticorrosive coatings of the internal surfaces of tanks used for the storage and processing of wine and juices; preliminary report. Trudy MNIIPP 2:43-55 162. (MIRA 16:4)

(Wine and wine making—Equipment and supplies)
(Corrosion and anticorrosives)

ABLOV, A.V.; D'YAKON, I.A.; IVANOVA T.YO.; PROSKING, M.N.; CHAPURINA, L.F.

Medif cation of copper alycocholate. Zhur. neorg. khim. 10 no.3:
628-635 Mr '65.

(MIRA 18:7)

1. Institut knimii AN Moldavskoy SSR.

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AB	LOV, A.V.; CHAPURINA, L.F.; BELICHUK, N.I.	
	The state of the s	
	Infrared absorption spectra of diacetylsemicarbazon derivatives. Zhur. neorg. khim. 10 no.5:1186-1190	rime metallic
		(MIRA 18:6)
*	1. Institut khimdi AN Moldavskoy SSR.	
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ABLOV, A.V.; PROSKINA, N.N.; CHAPURINA, L.F.

of aromatic amines to cobalt, zinc, and cadmium halides. Zhur. neorg. khim. 10 no.6:1350-1354 Je 165.

(MIRA 18:6)

1. Institut khimii AN Moldavskoy SSR.

ABLOB, A.V.; CHAPURINA, L.F.; BELICHUK, N.I.

Infrared absorption spectra of metallic derivatives of diacetyloxime hydrasone. Zhur.neorg.khim. 11 no.1872-75
Ja *66. (MIRA 19ml)

1. Institut khimii AN Moldavskoy SSR. Submitted June 8, 1964.

ZHURAVLEV, V., strakhovoy delegat, val'shchik lesa; CHAPURINA, M., strakhovoy delegat, podkatchitsa (Myandoma, Arkhangel'skoy obl.)

Don't pass by! Okhr.truda i sots.strakh. 6 no.1216 Ja '63.

(MIRA 16:1)

1. Nyandomskiy lesopunkt, Arkhangel'skoy obl. (for Zhuravlev).

(Archangel Province—Lumbering hygienic aspects)

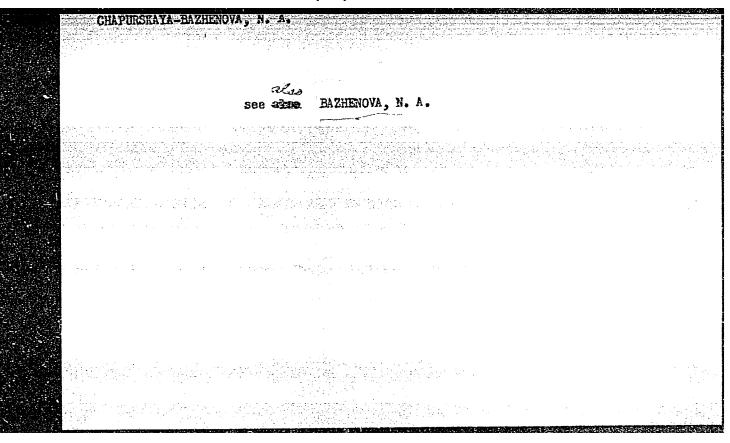
CHAPURSKAYA, N.A.; BORISENKO, N.G.; CHERNOVA, I.A.; CHERNIY, F.A.; BELOUS, G.V.

Results of dispensary service for convalescents following infectious hepatitis. Nauch. inform. Otd. nauch. med. inform. AMN SSSR no.1:28 '61 (MIRA 16:11)

1. Institut infektsionnykh bolezney (direktor - chlen korrespondent AMN SSSR prof. I.L.Bogdanov) AMN SSSR, Kiyev.

CHAFORSKAYA, N.A. (Kiyav): BITENBINDER, Ye.A. (Kiyev)

Clinical and epidemiological characteristics of influenza in



CHAPURSKAYA-BAZHENOVA, N. A.

Jul 53

USSR/Medicine - Dysentery

"Carrying of Dysentery Bacilli, Symptomless Forms of Dysentery, and Disguised Forms

of Dysentery, N. A. Chapurskaya-Bazhenova

Zhur Mikro, Epid, i Immun, No 7, pp 32-33

Carrying of bacilli occurs principally in cases of symptomless or disguised dysentery. In such cases, the presence of the infection can generally be established by rectoromanoscopy, because changes of the mucous membrane are present in the distal part of the large intestine. Occasionally these changes are absent, i.e., healthy persons carry bacilli. The symptomless course of dysentery may be alternated by typical acute clinical dysentery (hemocolitis). This work is based on data obtained in 1949-51 at the Clinical Dept., Inst of Infectious Diseases, Acad Med Sci USSR.

267T44

CHAPUESTAYA-BAZHT-10VA. 1.A

Bacterial carriage and asymptomatic and latent forms of dysentery. Sovet. med. 17 no.4:16-18 Apr 1953. (CIML 24:4)

1. Of the First Clinical Division (Head -- Prof. B. Ya. Padalka) of the Institute of Infectious Diseases (Director -- Prof. I. L. Bogdanov), Academy of Medical Sciences USSR.

BAZHENOVA, N.A.

Certain aspects of the epidemiology of diphyllobothriasis in Leningrad Province. Med.paras. i paras. bol.24 no.3:242-248 (MLRA 8:12)

1. Zaveduyushchaya Leningradskoy oblastnoy protivomalyariynoy stantsiyay.

(TAPINOHM IMFECTIONS, spidemiology, diphyllobothriasis in Russia)

KHOMENKO, G.I., prof., red.; MAKSIMOVICH, N.A., prof., red.; CHAPHRSKAYA, W.A., starshiy nauchnyy sotrudnik, red.; LIKHTOROVICH, P.K., red.; DUBLESKAYA, Ye.A., red.; GITSHTEYN, A.D., tekhred.

[Dysentery; epidemiology, pathogenesis, clinical aspects, and therapy] Disenteriia; epidemiologiia, patogenes, klinika i terapiia. Red.kol. G.I.Khomenko i dr. Kiev, Gos.med.isd-vo USSR, 1959. 270 p. (NIRA 13:5)

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut infektsionnykh bolesney. 2. Institut infektsionnykh bolesney AMN SSSR (Kiyev) (for Khomenko, Maksimovich, Likhtorovich, Dubinskaya). (DYSENTERY)

Chapurskaya-Bazhenova, N. A., Yanchenko, T. F., Golub, N. F. Chudnaya, L. M., Chernova, I. A., Borisenko, N. G., Danileychenko, I. A., and Kirichinshaya, I. A.

Petection of abortive and latent forms of poliomyelitis and of the "healthy" virus carriers in the closest environment of the patient.

Materialy nauchnykh konferentsii, Kiev, 1959. 288pp (Kieskiy Nauchno-issledovatel'skiy Institut Epidemiologii i Mikrobiologii)

SOV/78-4-2-11/40

5(2) AUTHORS: Grinberg, A. A., Chapurskiy, I. N.

TITLE:

Acetyl Acetonates of Bivalent Platinum (Atsetilatsetonaty

dvukhvalentnoy platin,)

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 2,

pp 314-318 (USSR)

ABSTRACT:

The orange and light yellow acetyl acetonates of bivalent platinum, which are soluble in water, and the cancry-yellow acetyl acetonates, which are insoluble in water, were investigated with regard to their production conditions and physico-chemical properties. The orange salt is easily soluble in water (~4.73% at 150), difficultly soluble in alcohol and practically insoluble in ether, chloroform, and benzene. The formula by Werner was proved by the analyses of this salt (Ref 3). On account of the determination of the molecular electric conductivity the following coordination

formula has been suggested for the orange salt:

 $K\begin{bmatrix}C1 & Pt & Ac\end{bmatrix}$ Ac = $\begin{bmatrix}CH_3-CO-CH=CO-CH_3\end{bmatrix}$

Card 1/3

Acetyl Acetonates of Bivalent Platinum

SOV/78-4-2-11/40

The formula of the light yellow salt is: The light yellow salt is also easily soluble in water and difficultly soluble in alcohol. The solubility in water is ~10.2%. If hydrochloric acid is added, an amorphous yellow precipitate separates out of the aqueous solutions of this salt. It is difficultly soluble in water and easily soluble in organic solvents. The canary-yellow acetyl acetonate is insoluble in water but easily soluble in organic solvents, as benzene, alcohol, chloroform, and carbon tetrachloride. By analyzing this compound the following formula was found: Pt(C5H7O2)2. The molecular weight of this compound is 388 (calculated 393.34). The solubility determination of Pt(C5H7O2)2 in benzene and alcohol at 25° showed the following results: L_{250} in ethyl alcohol = $6.5.10^{-3}$ g-mol/1,

 $L_{25^{\circ}}$ in benzene = 4.10⁻² g-mol/1.

The determination of the molecular electric conductivity of the weak aqueous solutions shows that the yellow salt and the orange salt are binary electrolytes whereas the insoluble

Card 2/3

Acetyl Acetonates of Bivalent Platinum

SOV/78-4-2-11/40

platinum diacetyl acetonate is no electrolyte. There are

1 table and 4 references, 3 of which are Soviet.

ASSOCIATION: Leningradskiy tekhnologicheskiy institut im. Lensoveta

(Leningrad Technological Institute imeni Lensovet)

SUBMITTED: November 3, 1957

Card 3/3

ACCESSION NR: APLO13533

3/0181/64/006/002/0632/0634

AUTHUR: Chaputovich, Ye. Ye.

TITLE: Change in the width of the forbidden some of tellurium under hydrostatic pressure

SOUNCE: Fizika tverdogo tela, v. 6, no. 2, 1964, 632-634

TOPIC TAGS: forbidden zone, tellurium, sone width, forbidden zone width, hydrostatic pressure, pressure dependence, optical method, electrical method, lattice defect

ABSTRACT: The author found deviations in values of a presented in the data of various authors: $a = (\frac{\partial E}{\partial P})_T$ (E = width of forbidden zone, P = pressure). He therefore examined single crystals of Te to draw comparisons. For unannealed samples a was found to range from -1.0·10⁻⁵ to -1.3·10⁻⁵ ev/atm. After heating at a temperature of 200C for 20 hours, all investigated samples gave a value of -(1.6 + 0.1)·10⁻⁵ ev/atm. The author concludes that the value of a in Te is sensitive to lattice defects and increases with diminution in number of defects (after heating). The value of a obtained by the optical method does not agree

Card 1/2

ACCESSION NR: AP4013533

with the value obtained by the electrical method. The optically obtained value is nesser the theoretical value. "The author expresses his sincere thanks to L. F. Vereshchagin, Corresponding Member AN SSSR, for his guidance in the work." Orig. art. has: 2 tables and 3 formulas.

ASSOCIATION: Institut fiziki vywsokikh davleniy AN SSSR, Moscow (Institute of Physics of High Pressures AN SSSR)

SUBMITTED: 03Aug63

DATE ACQ: 03Mar64

ENCL: 00

SUB CODE: PH

NO REP SOV: OOL

OTHER: Oll

Cord 2/2

CHAPUTOVICH, Ye.Ye.

High-pressure multiwire electric lead-in. Prib. i tekh. eksp. 9 no.4:193 Jl-Ag '64. (MIRA 17:12)

1. Institut fisiki vysokikh davleniy AN SSSR.

BEDRINA, V.S.; KUROANSKAYA, V.M.; CHAPTOINA, LAMBRE PROPERTY OF circulation, Trudy TRIP no. 56:71-93 '57. (MIRA 10:8)

(Meteorology)

CHAPYGINA, N. M.

3(7)

PHASE I BOOK EXPLOITATION

SOV/3031

Moscow. Tsentral'nyy institut prognozov

Voprosy dolgosrochnykh prognosov (Problems in Long-Range Forecasting)
Moscow, Gidrometeoizdat (otd.) 1958. 104 p. (Series: Its: Trudy,
vyp. 73) 1,100 copies printed.

Sponsoring Agency: USSR. Glavnoye upravleniye gidrometeorologicheskoy sluzhby.

Ed.: (title page): V.M. Kurganskaya; Ed. (inside book): V.I. Tarukhunova; Tech. Ed.: I.M. Zarkh

PURPOSE: This issue of the Institute's Transactions is intended for meteorological and hydrographic specialists working in the field of long-range weather forecasting.

COVERAGE: This collection of articles deals with aspects of extended weather forecasting. Individual articles discuss: synoptic conditions of wind regimes most favorable to shipping along the Northern Sea Route [Soviet Arctic Seas]; synoptic conditions underlying a continuous ice cover in various parts

Card 1/3

Problems in Long-Range Forecasting

BOV/3031

of the Sea of Azov; a method for compiling daily schematic 500-mb contour maps (AT₅₀₀) for 3 days by utilizing an equation of the conservation of vortex velocity and temperature regime; a method for the advance computation of the baric field for periods of 24, 48, and 72 hours; the determination of definite relationships for forecasting air temperature for a natural synoptic period. The results of actual tests in a series of investigations in extended forecasting are cited. References accompany each article.

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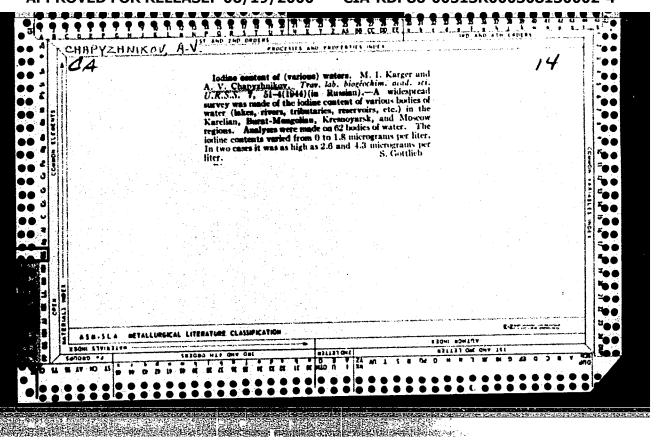
Antipova, Ye.G. Synoptic Characteristics of the Wind Regime in the Southern Part of the Barents and Karskoye Seas During the Navigation Period	1
Khesina, B.G. Synoptic Conditions of Freezing in the Sea of Azov	2
Khazova, O.N., and N.M. Chapygina. Compiling Mean Prognostic 500-mb Contour	r 5:
Turketti, Z.L. Forecasting Pressure Fields for 2-3 Days	57
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DMITRIYEVA, Yu. N.; CHAPYGINA, N. M.

Selection of analogues using machines. Meteor.i gidrol.no. 4:38-39 Ap '64. (MIRA 17:5)

1. TSentral'nyy institut prognozov.



CHAPYZHNIKOV, B.A.

78-3-30/35

AUTHORS: Breger, A. Kh, Ormont, B. F., Kutsev, V. S., Viting, B. I. and Chapyzhnikov, B. A.

TITLE: The Use of Brake Radiation of a Betatron for Characterizing the Oxygen Content of Semi-Conductors and Metallic Materials (Particularly Titanium Oxy-Carbides). (Ob ispol'zovanii tormoznogo izlucheniya betatrona dlya kharakteristiki soderzhaniya kisloroda v poluprovodnikovykh i metallicheskikh materialakh (v chastnosti, v oksikarbidakh titana)

PERIODICAL: Zhurnal Neorganicheskoy Khimii, 1957, Vol.II, Nr.3, pp. 696-699. (USSR)

ABSTRACT: This is a preliminary report on the development of a radio-activational method for determining non-metallic impurities in metals and semi-conductors. The possibility of determining oxygen in the system Ti-C-O from the reaction $0^{16} (\gamma,n)0^{15}$ with the use of brake radiation from a betatron has been demonstrated. Preliminary calibration curves for preparations with not less than 1% oxygen have been constructed. The method Card 1/2 is non-destructive and requires about 10 min per

The Use of Brake Radiation of a Betatron for Characterizing 78-3-30/35 the Oxygen Content of Semi-Conductors and Metallic Materials...

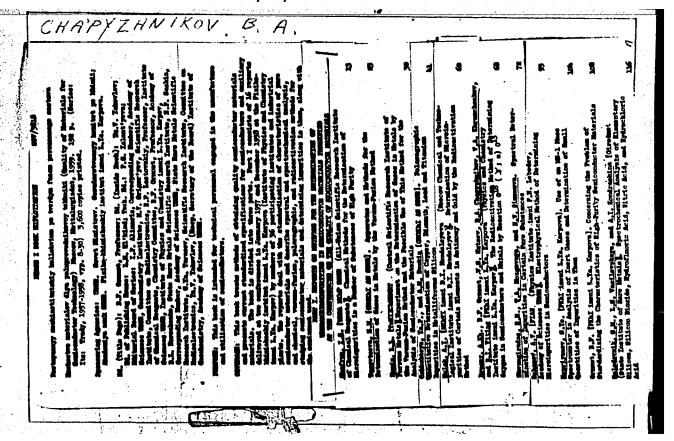
determination. There is 1 figure and 7 references, of which 4 are Slavic.

ASSOCIATION: The Physico-Chemical Institute imeni L. Ya. Karpov. (Fiziko-khimicheskiy Institut im. L. Ya. Karpova.)

SUBMITTED: August 15, 1956.

AVAILABLE: Library of Congress.

Card 2/2



BREGER, A.Kh.; ORMONT, B.F.; VITING, B.I.; GRIZHKO, V.M.; KOZLOV, V.A.; KUTSEV, V.S.; CHAPTZHNIKOV, B.A.; CHEPEL!, L.V.

> Radioactivation method of determining oxygen in semiconducting meterials and metals on the basis of the photonuclear reaction 016 (f,n) 015. Trudy kom.anal.khim. 10:137-141 60.

1. Fisiko-khimicheskiy institut im. L.Ya.Karpova, Moskva.

(Oxygen-Analysis) (Oxygen-Isotopes)

(Semiconductors--Oxygen content)

S/120/62/000/002/003/047 E039/E420

AUTHORS: Chepel', L.V., Viting, B.I., Chapyzhnikov, B.A.

TITLE: Exposure inside the accelerating space of a betatron

PERIODICAL: Pribory i tekhnika eksperimenta, no.2, 1962, 23-26

For a series of physical and physicochemical investigations it was necessary to significantly increase the specific induced activity of samples exposed in a betatron or synchrotron. Samples are normally placed outside the accelerator at a distance of not less than 20 to 30 cm from the target. In this paper two new methods are described for exposing solid and liquid samples inside the working space of a betatron giving an increase in the specific induced activity of 20 to 100 times. The first method makes use of an internal pocket with dispersion foils and is a modification of a previously described method. The pocket consists of a glass tube of 30 mm bore with a flat topped platinum cap at one end attached by means of a Kovor collar. At the other end of the tube is a vacuum seal for mounting the pocket in the apparatus. Eddy current heating is insignificant; an equilibrium temperature of 70°C being obtained. The glass tube Card 1/2

Exposure inside the ...

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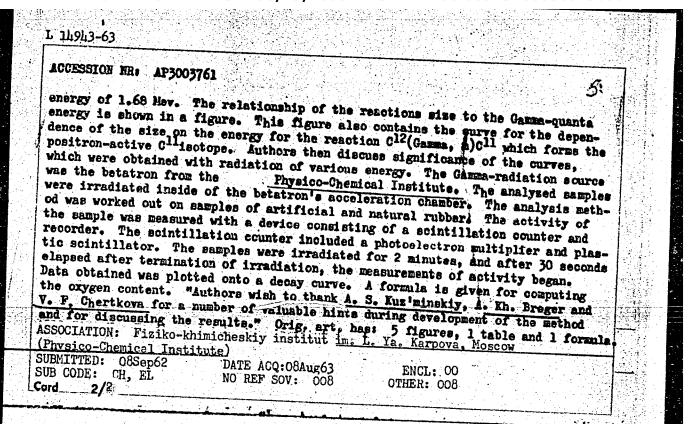
is coated with an earthed layer of "Aquadag". The effect of the dispersion foils on the distribution of the electron beam is examined by means of autoradiographs of exposed single crystals of rock salt. The second method makes use of two glass tubes which terminate in a small volume ~2 cc in the working space of the betatron and can be used to expose liquids to the fast electron beam. Both methods can be used for obtaining small quantities of artificial isotopes and also for exposing a series of materials to fast electrons without stopping the betatron. Absolute values of the induced activity for plates of Cu⁰⁴ volume 10 x 10 x 0.5 mm³ exposed in the pocket are ~0.5 \mu curies with a radiation intensity of 50 rpm at a distance of 1 m from the target. These methods are used for the radioactivation analysis of metals, semiconductors and some hydrocarbons and polymers. There are:

ASSOCIATION: Fiziko-khimicheskiy institut (Institute of Physics and Chemistry)

SUBMITTED: June 7, 1961

Card 2/2

14943-63 ICCESSION NR: A	EWP(j)/EPF(c)/EWT(m)/BDS _ ASD Pr-4 RM/	W
		3/007/0865/0872
WHORS: Chepel	, L. V.; Chapy shnikov. B. A.; Viting, B. I.	65
ITIE: Radioact	ivation method for determining oxygen in some	
OURCE: Zhurnal	analiticheskoy khimii, v. 18, no. 7, 1963, 865	-872
OPIC TACS: radi	icactivation method, oxygen, polymer, photomucl electron accelerator, C sup 11	ear reaction,
uitable to be ap tate that a furt sing powerful so	is a continuation of studies which authors previeweloped radioactivation method for determining oplied to other objects (metals and semiconduct ther augmentation of the methods sensitivity capurces of electromagnetic radiation (linear electromagnetic radiation (linear electromagnetic radiation (linear electromagnetic radiation (linear electromagnetic radiation)	g oxygen which was ors). Authors to be attained by
other isotopes	the measurement of the activity of 015 on the shich are forzed in the analyzed material by ork is devoted to an examination of a special of the 015 isotope on the "background" of the tion 016 (Gamma, n) 015, whose threshold is 15 sectope 015 with a half-life period of 127 sectors.	"background"
ot onus Toom	tion 016 (Gamma, n) 015, whose threshold is 15.	6 May forms the
sitron-active i	sotope 0-2 with a half-life period of 127 second	ds and positron



EVT(m)/EVP(j)/TIJP(c) DJ/RM ACC. NR: AP6021206 SOURCE CODE: UR/0138/66/000/003/0049/0053 AUTHOR: Chepel*, L. V.; Chapyzhnikov, B. A.; Mikhaylova, G. N.; Zhuravskaya, Ye. V.;

Kuz'minskiy, A.

ORG: Physicochemical Institute im. L. Ya. Karpov (Fiziko-khimicheskiy institut); Scientific Research Institute of the Rubber Industry (Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti)

TITLE: Radioactive method of determining oxygen in elastomers during their processing and aging

SOURCE: Kauchuk i resina, no. 3, 1966, 49-53

TOPIC TAGS: oxygen, elastomer, radioisotope

ABSTRACT: A method has been developed for determining the oxygen content of polymers directly during their processing and aging, the sample being unaffected by the analysis. It consists in activating the nuclei of oxygen and carbon present in the polymer by means of gamma radiation, then identifying the radioisotopes formed. Since the radioisotopes 015 and C11 are formed simultaneously during the irradiation, in order to measure the activity of 015 against the background of C11, a technique of discrimination involving the use of a laboratory scintillation analyzer was employed. The method was first applied to the study of the oxidation kinetics of raw and cured rubbers during rolling, vulcanization, and radiation aging, and then to the determination

L 46173-66

.7:543:844:621.039.83

of oxygen in an unfilled NK-base rubber at various stages of vulcanization in the press. The method can also be used to study the development of oxidation processes associated with wear and fatigue in rubbers. Orig. art. has: 4 figures and 1 table. SUB COOK: 11/ SUHM DATE: 25Nay64/ ORIG REF: 003/ OTH REF: 002		NR: AP		-			10						3	
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PORITSKIY, V. I.; CHARAKADER, G.

Conferences of readers of "Meteorologiia i gidrologiia."

Metero.i gidrol. no.2:51-52 F '52. (MIRA 8:9)

(Meteorology--Periodicals)

KUNCHEV.K.N.; CHARAKCHIEV.D.

Favism in adults in the Burgas region. Suvrem. med., Sofia 11 no.2-3:126-132 '60.

1. Iz Okrushnata bolnitsa - Burgas, Gl. lekar: Zh. Siakolov. (FAVISM epidemiol.)

ACC NR: AP5024659

SOURCE CODE: UR/0048/65/029/009/1774/1776 AUTHOR: Bazilevskaya, G.A.; Kvashnin, A.H.; Krasotkin, A.P.; Filatov, V.M.; Charakboh

Physics Institute im P.N.Lebedev, Academy of Sciences, SSSR (Fizicheskiy in-ORG: stitut Akademii nauk SSSR)

Radiosonde for measurement of x rays in the stratosphere /Report, All-Union Conference on Cosmic Ray Physics held at Apatity 24-31 August 1964/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v 29, no 9, 1965, 1774-1776

TOPIC TAGS: x ray, stratosphere, secondary cosmic ray, radiosonde

ABSTRACT: There are briefly described two radiosondes for measuring x rays in the stratosphere. Both instruments employ NaI:Tl scintillators and vacuum tube electronics and are battery powered with transistor voltage convertors ment weighs 2.5 kg and records photons with energies above 30-35 keV. The second instrument weighs 6 kg and its threshold is adjustable from 20 to 360 keV by a system of relays, so that photon energy spectra can be recorded. Schematic diagrams are given for both instruments, but not for their power supplies or for the relay system. Altitude versus counting rate curves recorded over Dolgoprudnyy are presented. Orig. art. has: 4 figures.

SUB CODE: NP,OP,EC/ SUBM DATE: 00/ Card 1/1

ORIG REF: 002/ OTH REF: 000

L 3645-66 EWT(1)/FCC/EWA(h) GW

ACCESSION NR: AP5026221

UR/0048/65/029/010/1800/1804

AUTHOR: Charakhch'yan, A. N.; Charakhch'yan, T. N.

35

TITLE: Several problems on the generation of cosmic rays by the sun and their propagation into interplanetary space

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 10, 1965, 1800-1804

TOPIC TAGS: differential energy spectrum, proton, exponential function, proton spectrum, corpuscular stream, chromospheric flare, interplanetary space, solar 12-,55

ABSTRACT: Measurements proved that the differential energy spectrum of protons may be expressed as an exponential function with the exponent $\gamma = 6$ when the energy is several hundred Mev. The exponent γ of the proton spectrum was found to equal 3 before the arrival of corpuscular streams from a chromospheric flare, and it reached the value of 6 when the earth was in the stream of a chromospheric flare. The spectral exponent 3 relates to protons freely diffusing into interplanetary space from the sum, and the exponent 6 must be related to an additional stream of protons carried by magnetic traps. One part of solar-protons propagates freely and reaches the earth earlier than the other, which is trapped by the

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ACCESSION NR: AP5026221

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magnetic field and propagates slowly. The constancy of energy spectra of flares indicates that the particle acceleration in flares is constant and does not depend upon solar atmospheric processes. Two graphs in the original article represent data of measurements of differential spectra of protons, α-particles, and nuclei of the M group. Spectra of protons and α-particles of two flares are represented by the same curves. A table in the original article contains ratios of the number of α-particles to the number of protons and the number of nuclei to the number of protons determined from various flares. The first ratio is usually equal to 0.25, and the second ratio is always equal to 0.14 in the cases shown in the table. The formation of spectra of charged particles of cosmic rays is very complicated and has no relation to the chemical elements in the sum. Orig. art. has: 3 figures and 1 table.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Instituta of Physics, Academy of Sciences, SSSR); Institut yadernoy fiziki Moskovskogo 55 gosudarstvennogo universiteta im. M. V. Lomonosova (Institute of Nuclear Physics, Moscow State University)

SUBMITTED: 00

ENCL: 00

SUB CODE: AA

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OTHER: 008

ATD PRESS: 4/16

L 3646-66 EWT(1)/FCC/EWA(h) GW ACCESSION NR: AP5026222

UR/0048/65/029/010/1805/1806

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AUTHOR: Vernov, S. N.; Charakhch'yan, A. N.; Babarykin, V. K.; Bayarevich, V. V.;

35. TITLE: Measurements of the intensity of cosmic rays in the stratosphere above ${\cal B}$ 32

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 29, no. 10, 1965, 1805-1806

TOPIC TAGS: cosmic ray, primary cosmic ray, outer radiation belt, artificial radioactivity, critical energy, proton

ABSTRACT: Simultaneous measurements of the intensity of cosmic rays in both hemispheres are of great importance for investigating low-energy primary cosmic vadiation, temperature effect, disturbances in the earth's outer radiation belt, and artificial radioactivity in the stratosphere. Although the critical energy in Murmansk is about 100 Mev and in Mirnyy about 10 Mev, measurements are carried out in atmospheric layers above both places with a pressure of 10 g/cm², which can be penetrated by protons with energies above 100 Mev. Data obtained simultaneously in Murmansk and Mirnyy are obtained at different seasons, and they arrive from different directions in the atmosphere. Sounding takes place in all stations at a given time. Four times a week cosmic rays are measured with a

L 3646-66
ACCESSION NR:: AP502522 ACCESSION NR:: AP5026222

single counter and two times with a special telescope. Results of measurements are represented graphically. The difference between Murmansk and Mirnyy varies, depending upon the season of the year. The difference is small when the pressure is between 20 and 200 g/cm². The difference increases at other pressures. Orig.

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR (Institute of Physics, Academy of Sciences, SSSR); Nauchno-issledovatel'skiy institut yadernoy fiziki Moskovskogo gosudarstvennogo universiteta im. M. V. Lomonosova (Scientific Research Institute of Nuclear Physics, Moscow State University); VIII Sovetskaya antarkticheskaya ekspeditsiya (VIII Soviet Antarctic Expedition) SUBMITTED: 00

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SUB CODE: AA,ES

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OTHER: 000

ATD PRESS: 4/16

AGESHIN, P.N.; KOLOMEYETS, Ye.V.; CHARAFHCH'YAN, A.N.; CHARAKHCH'YAN, T.N.

Secular variation in cosmic ray intensity in the stratosphere during the period 1962-1964. Izv. AN SSSR.Ser.fiz. 29 no.10:1901-1902 0 '65. (MIRA 18:10)

L 2321-66 EWT(d)/EWT(1)/EEC(k)-2/FCC/EWA(h) GS/GW ACCESSION NR: AT5023618 UR/0000/65/000/000/0454/0460 AUTHORS: Vernov, S. N.; Lizutin, L. L.; Charakhch'yan, A. N.; Charakhch'yan, 48 TITLE: Outer Van Allen belt and bursts of x-rays in the stratosphere BH SOURCE: Vsesoyuznaya konferentsiya po fizike kosmicheskogo prostranstva. Moscow. 1965. Issledovaniya kosmicheskogo prostranstva (Space research); trudy konferentsii. Moscow, Izd-vo Mauka, 1965, 454-460 TOPIC TAGS: radiation belt, E ray, stratosphere, magnetic storm, solar activity, ABSTRACT: Observations of bursts of x-rays in the stratosphere, which are apparently the result of bremsstrahlung of high-energy electrons trapped in the magnetic field of the earth, are discussed. The work and results from a number of American and Soviet groups are described. The results of observations made during 1964 above Murmansk and Mirnyy are presented, giving the integrated photon energy spectra and the dependence of count rate on pressure for the four events described. By comparison with the previous results, it was found that increased radiation in Card 1/2

L 2321-66

ACCESSION NR: AT5023618

the stratosphere is correlated with recurrent magnetic storms, with large ionospheric disturbances, and, in the aurora zone, with the absorption of radio waves in the F2 layer of the ionosphere. Toward the minimum of solar activity the frequency of x-ray bursts remained unchanged, and the photon energy spectrum became more stable. Satellite measurements made at the same time showed no increase in galactic cosmic ray intensity. In Since the number of high-energy electrons in the outer Van Allen belt is insufficient to explain the intensity of x-rays in the stratosphere, it is concluded that the x-rays must be caused, in part, by an additional flux of electrons produced by transient electron-accelerating processes occurring in the magnetosphere of the earth. Orig. art. has: 3

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SUBMITTED: 02Sep65

L 1536-66 EWT(1)/FCC/EVA(h) ACCESSION NR: AT5023637 UR/0000/65/000/000/0547/0552 AUTHOR: Charakhch'yan, A. N.; Charakhch'yan, T. N. CONTRACTOR OF THE PARTY OF THE TITLE: Generation of cosmic rays on the sun 12,44,55 SOURCE: Vsesoyuznaya konferentsiya po fizike kosmicheskogo prostranstva. 1965. Issledovaniya kosmicheskogo prostranstva (Space research); trudy konferentsii Moscow, Izd-vo Nauka, 1965, 547-552 TOPIC TAGS: chromospheric flare, cosmic ray burst, stratosphere, primary component, magnetic storm, ionospheric perturbation, energetic spectrum, galactic cosmic ray, ABSTRACT: Three strong chromospheric flares occurred in 1959 followed, after.intervals of several days, by bursts of cosmic rays in the stratosphere with intensity of the primary components 200, 800, and 2800 times greater than the ordinary level. Bursts of cosmic rays followed chromospheric flares at intervals of several hours, and magnetic storms and ionospheric perturbations followed them at intervals of approximately one day. Energy spectra of protons in primary cosmic rays were studied by measuring the absorption of protons in the upper layers of the atmosphere. The intensity of cosmic rays of galactic origin attained a maximum at 16-22 km and de-Card 1/2

L 1536-66

ACCESSION NR: AT5023637

creased at higher altitudes. No maximum was observed at high latitudes, and the intensity increased gradually with altitude. The numbers of particles created at various heights during bursts were measured, and measurements of the numbers of particles at the same heights carried out before bursts were compared. The differences were then used for constructing absorption curves as functions of the pressure in the stratosphere. It was concluded from comparing the absorption curves of many bursts that the indices of differential energy spectra of protons measured before the arrival of solar corpuscular streams from chromospheric flares and having energies of millions of electron-volts lie near 3.0. Indices of the same proton spectra measured after the arrival of corpuscular streams were near 6.0. This difference in indices was explained by two kinds of protons. Proton spectra with indices near 3.0 belong to protons leaving the sun and diffusing freely into interplanetary space, and spectra with indices near to 6.0 belong to supplementary streams of fast protons carried by magnetic traps. Orig. art. has: h figures and 1 table.

ASSOCIATION: none

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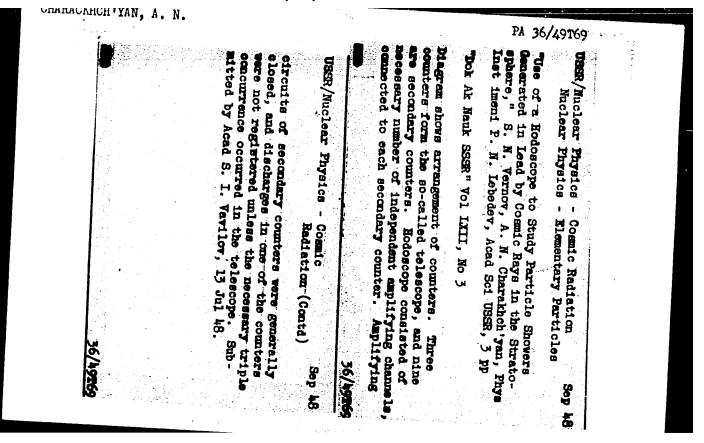
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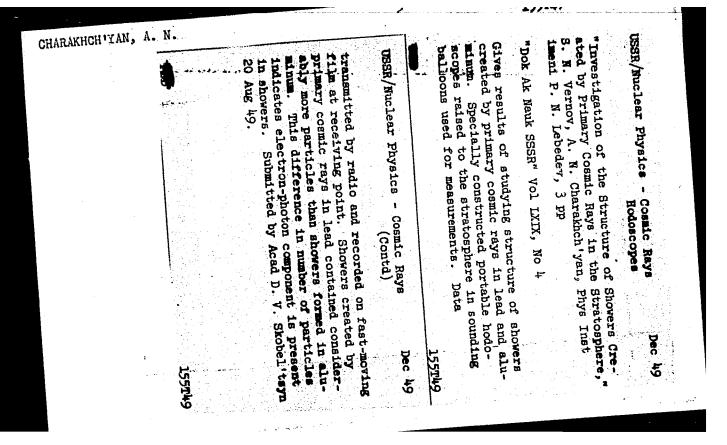
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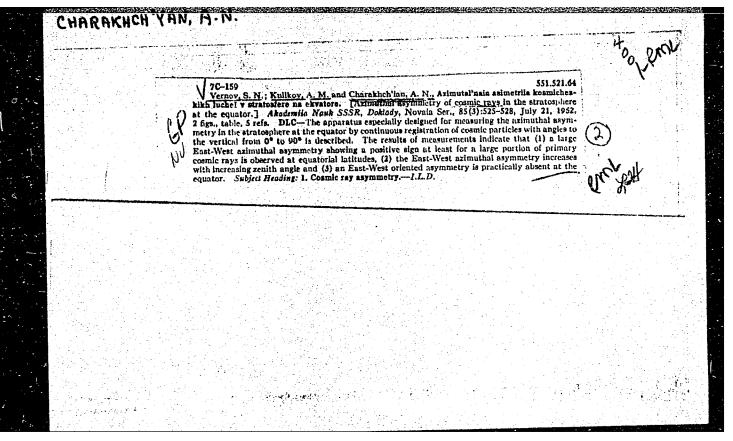


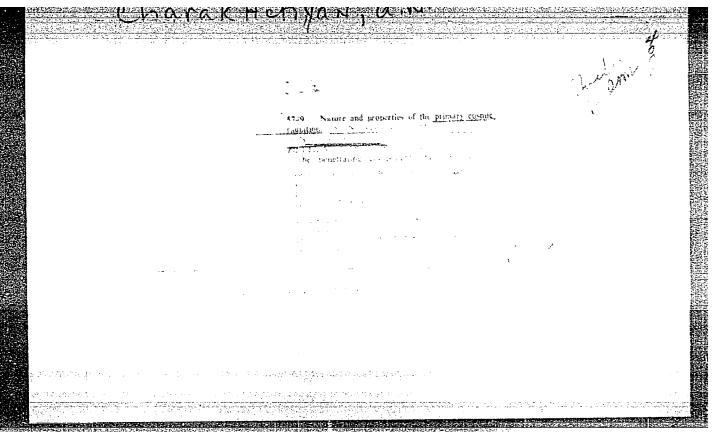


CHARAKHCH'YAN, A. N.

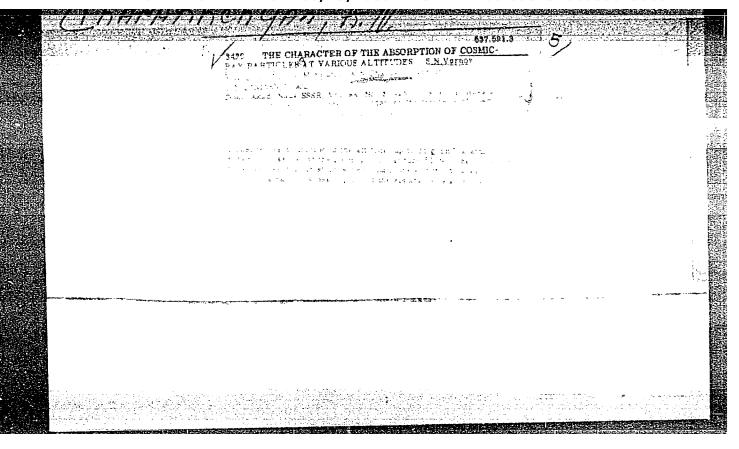
CHARAKHCH'YAN, A. N. - "Investigation of the Altitude Relation Between the Number of Electron-Nuclear Showers and the Intensity of the Penetrating Portions of Cosmic Rays in the Stratosphere at Various Geomagnetic Latitudes." Sub 24 Nov 52, Physics Inst imeni P. N. Lebedev, Acad Sci USSR. (Dissertation for the Degree of Candidate in Physicomathematical Sciences).

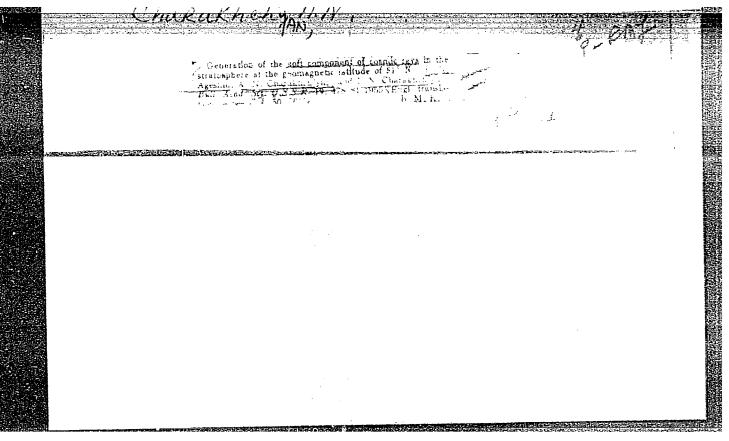
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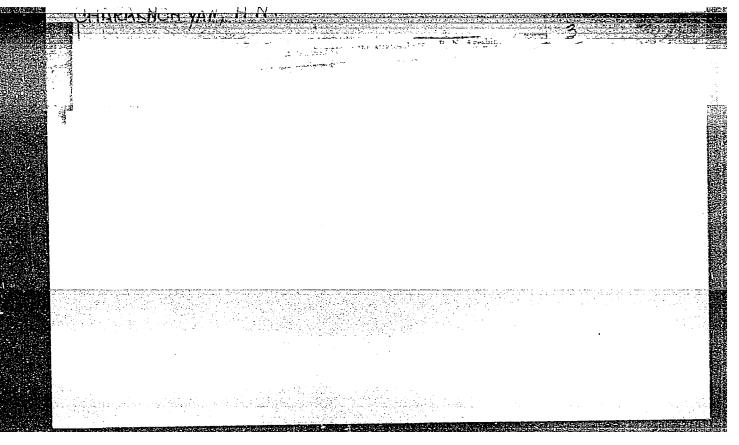


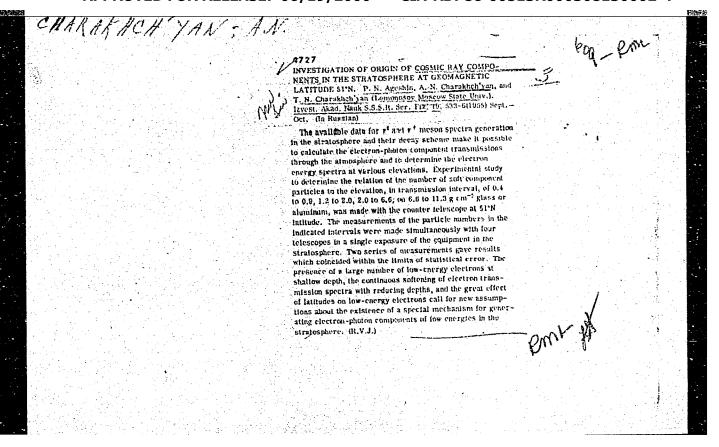


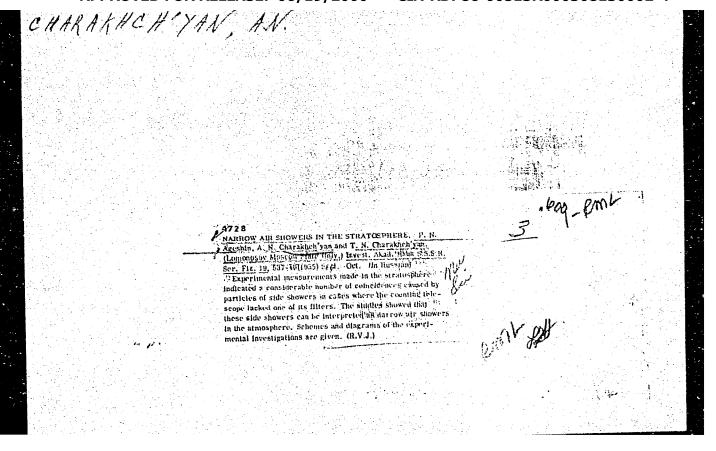
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SOV/56-35-5-5/56 24(5) Charakhchiyan, T. N. Charakhchiyan, A. N., AUTHORS:

Measurements of the Intensity of Cosmic Radiation in the TÎTLE:

Stratosphere at Various Altitudes and Latitudes (Izmereniya intensivnosti kosmicheskogo izlucheniya v stratosfere na raznykh

vysotakhi shirotakh)

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1958, PERIODICAL:

Vol 35, Nr 5, pp 1088-1102 (USSR)

This very detailed and comprehensive work contains results ABSTRACT: obtained by measuring the altitude dependence for particles

of various ranges of the soft component of cosmic radiation. Measurements were carried out at 31 and 51 north latitude. The altitude dependence of electrops of a given energy is computed by means of the energy spectrum of muon production in the atmosphere. Calculated results agree well with measured results carried out at 31° north latitude, which indicates that the great majority of soft component particles consists

of electrons produced by pions. Decay scheme:

 $\pi^+ \rightarrow \mu^+ + \nu$; $\mu^+ \rightarrow e^+ + 2\nu$ and $\pi^0 \rightarrow 2\gamma$. Analysis of experimental and calculated values for 51° north latitude in-

dicates the existence of an electron surplus with ranges below Card 1/3

sov/56-35-5-5/56

Measurements of the Intensity of Cosmic Radiation in the Stratosphere at Various Altitudes and Latitudes

> 2 - 3 g/cm². This phenomenon, which is very marked at 51°, is probably caused by γ -quanta emitted in the atmosphere in reactions involving neutron evaporation. The energy flux carried away by these surplus short range electrons comprises 10% of the total energy flux of the electron component in this latitude. The magnitude of the cosmic ray energy fluxes at the latitudes of 2, 31 and 51 was also determined (Tables 4. 5). For the energy spectrum of primary particles an expression was derived with the help of the data concerning energy flux as well as of those concerning the intensity of cosmic radiation particles on the boundary of the atmosphere at 51 and 31 north latitude. For the primary cosmic particle flux on the equator $(N_p + N_a)$ a new value was computed as amounting to 0.48 ± 0.04 particles per minute.cm².steradian. In conclusion, the authors thank Professor S. N. Vernov for his interest and for discussing results, and they also thank I. P. Ivanenko for valuable advice. There are 8 figures, 5 tables, and 23 references, 14 of which are Soviet.

Card 2/3

SOV/56-35-5-5/56

Measurements of the Intensity of Cosmic Radiation in the Stratosphere at Various Altitudes and Latitudes

ASSOCIATION: Fizicheskiy institut im. P. N. Lebedeva Akademii nauk SSSR

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Charakhchian, A. N.

"MEASUREMENT OF COSMIC RAY VARIATION IN THE STRATOSPHERE"

B. E. Samosudov, S. N. Vernov, V. F. Tulinov, A. N. Charakhchian and T. N. Charakhchian

Beginning with July 1, 195? (when the IGY programme began) regular measurements have been made of cosmic ray intensity in the stratosphere at geomagnetic latitudes of 51°N and 64°N, while since March 1958 similar measurements have been taken also at geomagnetic latitude of 41°N. The measurements are made with a single G-M counter.

During this period 840 stratosphere observations were made.

1. The data gathered have helped to establish the existence of a 27-day variation of cosmic rays in the stratosphere. The shape of the averaged wave is close to simusoidal while the period is 27 or 28 days. The wave amplitude, however, changes more than 5-fold in the observed intervals. The obtained values for the amplitude of the 27-day variation in the stratosphere are 8 to 10-fold that of similar data on the Earth.

2. The existence in the stratosphere of long periodical variations of cosmic

rays of extra-terrestrial origin has been discovered.

3. Values have been obtained for the cosmic ray latitude effect between latitudes of 64°N, 51°N and 41°N. It has been ascertained that the latitude effect between 64°N and 51°N undergoes substantial changes with time. The latitude effect between these latitudes in the maximum of the intensity curve amounts on the average to several per cent, and goes up abruptly with increase in altitude of observation reaching 15-20% at an altitude of approximately 30 km. Several cases of abnormal increase in

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cosmic ray intensity in the stratosphere at the latitude of 64°N have been discovered.

4. A correlation between 27-day variations of cosmic retiation and the floccula on the Sun, and a correlation between the long period cosmic ray variation and Sun spots has been established.

Report presented at the International Cosmic Ray Conference, Moscow, 6-11 July 1959

21(7) AUTHORS:

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TITLE:

The 27-Day Variations of the Intensity of Cosmic Radiations in the Stratosphere (27-dnevnyye variatsii intensivnosti kosmicheskikh luchey v stratosfere)

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ABSTRACT:

The authors carried out a long series of measurements of the intensity of cosmic radiation in the strato-

sphere by means of spherical probes. These

measurements form part of the program of the International Geophysical Year; they were duly begun on July 1, 1957 at two geomagnetic latitudes: 1) near Moscow (\lambda = 510, station Dolgoprudnaya, Nauchnaya stantsiya Fizicheskogo instituta AN SSSR)(Scientific

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Station of the Physics Institute AS USSR) and 2) near Murmansk ($\lambda = 64^{\circ}$, station Loparskaya, Severnaya

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Nauchaya Stantsiya AN SSSR (Northern Scientific Station AS USSR)). The present paper gives some results obtained by measurements carried out at the latitude of 51° from July 1, 1957 to February 1, 1958, and at the latitude of 64° from July 1, 1957 to October 1, 1957. These measurements were carried out by means of the radiometeorograph RK-1, which contained a thin-walled self-quenched counter of the type STS-6. The pulses of this counter were transmitted by means of a radio-transmitter. A short report is made on the measurements of the height and on the gauging of the counters. The authors describe the results relating to the maximum of the intensity curve in the pressure interval of 50-90 g/cm². These results, which are shown by a diagram, seem to indicate a periodicity in the variations of the intensity of cosmic radiation in the stratosphere, viz. for both of the aforementioned latitudes. In the stratosphere the amplitude of the wave is from 8 to 10 times as great as the amplitude of the

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wave on sea level. Therefore the variations investigated are to a great extent caused by the primary cosmic particles of low energies, According to the data available for magnetic storms there is not in every case a connection between the variation of the intensity of cosmic radiation and the existence of magnetic storms. A semiperiod of the aforementioned variations lasted 14.3+ 1 days. Next, a procedure for the more exact determination of this period is discussed. The authors thank P.N.Ageshin, V.V.Bayarevich, A.G.Bednyakov, V.A. Gladyshev, A.M. Istratova, A.F. Krasotkin, Yu.N. Komarov, F.Kh.Mochakov, I.K.Marshanov, and G.V. Churbanova for preparing the apparatus and for carrying out the experiments; they further thank Ye.S.Glokova, L.I. Dorman, and A.Ye. Chudakov for their discussing the results obtained . There are 3 figures and 5 references, 2 of which are Soviet.

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The 27-Day Variations of the Intensity of Cosmic SOV/20-122-5-11/56

Radiations in the Stratosphere

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Card 4/4

CHARAKHCHIAN, A. N.

"Energy spectrum of primary cosmic radiation" A. N. Charakhchian, T. N. Charakhchian

Based on intensity data for the electronic \mathcal{L}_{\downarrow} -mesonic and nucleonic components of cosmic radiation at geomagnetic latitudes of 2°, 31° and 51°, values were obtained for the total flux of cosmic radiation energy at these latitudes. Furthermore, using cosmic radiation intensity data at the boundary of the atmosphere at latitudes of 51° and 31°, an expression was obtained for the energy spectrum of primary cosmic particles. A new value was obtained for the primary flux of cosmic ray particles (Np + N α) at the equator (2°), namely 0.48 \pm 0.04 particles min⁻¹, cm⁻² sterad⁻¹.

report presented at the International Cosmic Ray Conference, Moscow, 6-11 July 1959

VERBOY, S.N.; TULINOV, V.P.; CHARAKHCH'YAN, A.N.

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